

EMC TEST REPORT

REPORT NO.: RM941208L11B

MODEL NO.: SDC-CF10G

RECEIVED: Jul. 18, 2006

TESTED: Jul. 27 ~ Jul. 31, 2006

ISSUED: Aug. 01, 2006

APPLICANT: Summit Data Communications, Inc.

ADDRESS: 526 South Main Street Suite 411, Akron, Ohio,

44311 United States

ISSUED BY: Advance Data Technology Corporation

LAB ADDRESS: No.47, 14th Ling, Chia Pau Tsuen, Linko Hsiang 244,

Taipei Hsien, Taiwan, R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan

Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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No.: 2177-01



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CERTIFICATION

PRODUCT: SDC-CF10G 802.11g Compact Flash Module with

Antenna Connectors

MODEL: SDC-CF10G

BRAND: Summit

TESTED: Jul. 27 ~ Jul. 31, 2006

APPLICANT: Summit Data Communications, Inc.

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: EN 301 489-1 V1.5.1 (2004-11)

EN 301 489-17 V1.2.1 (2002-08)

EN 55022:1998+A1:2000+A2:2003, Class B

EN 61000-4-2:1995+A1:1998+A2:2001

EN 61000-4-3:2002+A1:2002

The above equipment have been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

TECHNICAL

ACCEPTANCE : Responsible for EMC

Clark Lin / Deputy Manager

, **DATE**: Aug. 01, 2006



2 SUMMARY OF TEST RESULTS

After estimating all the combination of every test mode, the result shown as below is the worst case.

The EUT has been tested according to the following specifications:

EMISSION						
Standard	Test Type	Result	Remarks			
EN 55022:1998+A1: 2000+A2:2003, Class B	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is -13.82dB at 0.207MHz			
	Radiated Test	NA	Not Applicable			

NOTE: The information of measurement uncertainty is available upon the customer's request.

IMMUNITY (EN 301 489-1 V1.5.1, EN 301 489-17 V1.2.1)							
Standard Test Type Result Remarks							
EN 61000-4-2:1995 +A1:1998+A2:2001	Electrostatic discharge immunity test	PASS	Meets the requirements of Performance Criterion A				
EN 61000-4-3:2002 +A1:2002	Radiated, radio-frequency, electromagnetic field immunity		Meets the requirements of Performance Criterion A				

NOTE: Please refer to Item 3.3 for more detailed description.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	SDC-CF10G 802.11g Compact Flash Module with Antenna Connectors
MODEL NO.	SDC-CF10G
POWER SUPPLY	3.3Vdc from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
NUMBER OF CHANNEL	13
OPERATING FREQUENCY	2400 ~ 2483.5MHz
ANTENNA TYPE	Dipole antenna with 2.2dBi gain
I/O PORTS	NA
DATA CABLE	NA

NOTE:

- 1. This report is issued as a supplementary report of the original report (ADT report No.: RM941208L11). The main difference is changing the antenna.
- 2. The EUT will be installed in the platform: (1) Mobile Data Terminals (MDTs), (2) Vehicle Mounted Devices (VMDs).
- 3. The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11g or IEEE 802.11b devices to the network. With its high-speed data transmissions of up to 54Mbps.
- 4. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODE

The EUT was tested under following conditions:

CONDITION	CONFIGURATION
1	Transmission
2	Standby

3.3 GENERAL DESCRIPTION OF APPLIED STANDARD

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

EN 301 489-1 V1.5.1 (2004-11), EN 301 489-17 V1.2.1 (2002-08)

EN 55022:1998+A1:2000+A2:2003, Class B (Conducted Emission Test)

EN 61000-4-2:1995+A1: 1998+A2:2001

EN 61000-4-3:2002+A1:2002

According to clause 7.1 (table 2) and clause 7.2 (table 3) of **EN 301 489-1 V1.5.1** (2004-11), all test items have been performed and recorded as per the above standards.



3.4 DESCRIPTION OF SUPPORT UNIT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

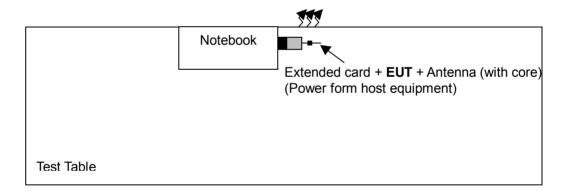
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	Compaq	N800C	470048-515	FCC DoC Approved
2	WIRELESS BROADBAND ROUTER	BUFFALO	WBR-G54	14070444314455	FCC DoC Approved

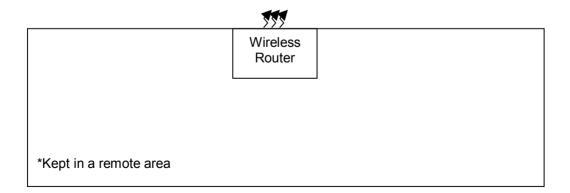
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA

NOTE:

- 1. All power cords of the above support units are non shielded (1.8m).
- 2. Item 2 acted as communication partners to transfer data.

3.5 CONFIGURATION OF SYSTEM UNDER TEST







4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

EDECUENCY (MILE)	Class A (Class A (dBuV) Class B (dBu		(dBuV)
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 11, 2006
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 06, 2007
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Feb. 15, 2007
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 07, 2007
Software ADT	ADT_Cond_V3	NA	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Shielded Room 1.
- 3. The VCCI Site Registration No. is C-2040.



4.1.3 TEST PROCEDURE

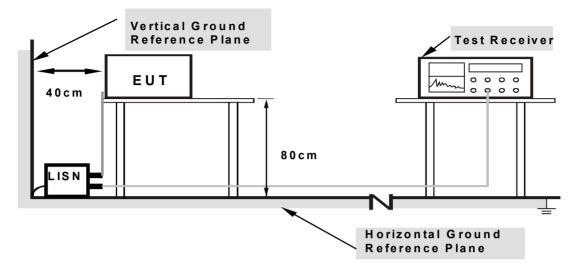
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under Limit 20dB was not recorded.

4.1.4	DEVIAT	'ION I	FROM	TEST	STAN	IDARD

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4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

FOR THE ACTUAL TEST CONFIGURATION, PLEASE REFER TO THE RELATED ITEM – PHOTOGRAPHS OF THE TEST CONFIGURATION.

4.1.6 EUT OPERATING CONDITIONS

- a. Plugged EUT in notebook system and placed on the testing table.
- b. Prepared the wireless broadband router and placed it outside of testing area to act as communication partner for EUT.
- c. The communication partner sent data to EUT by command "PING".



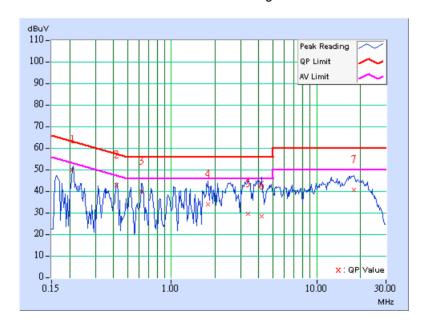
4.1.7 TEST RESULTS

INPUT POWER (SYSTEM)	230Vac, 50 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	23deg. C, 66% RH, 991hPa	PHASE	Line 1
TESTED BY	Dark Su		

	Freq.	Corr.	Reading	g Value		ssion vel	Lir	nit	Mar	gin
No		Factor	[dB ((uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.207	0.10	49.39	-	49.49	-	63.31	53.31	-13.82	-
2	0.420	0.10	42.17	-	42.27	-	57.46	47.46	-15.18	-
3	0.623	0.14	39.19	-	39.33	-	56.00	46.00	-16.67	-
4	1.789	0.20	33.37	-	33.57	-	56.00	46.00	-22.43	-
5	3.355	0.38	28.76	-	29.14	-	56.00	46.00	-26.86	-
6	4.188	0.47	27.68	-	28.15	-	56.00	46.00	-27.85	_
7	17.965	0.75	40.09	-	40.84	-	60.00	50.00	-19.16	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



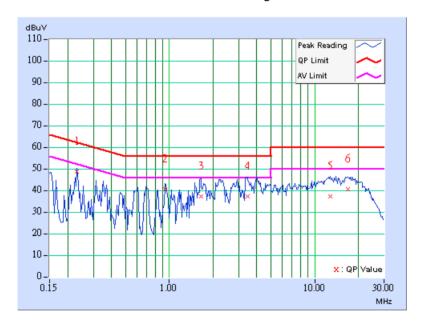


INPUT POWER (SYSTEM)	230Vac, 50 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	23deg. C, 66% RH, 991hPa	PHASE	Line 2
TESTED BY	Dark Su		

	Freq.	Corr.	Reading	g Value	Emis Le	sion vel	Lir	nit	Mar	gin
No		Factor	[dB ((uV)]	[dB	(uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.232	0.10	48.20	-	48.30	-	62.38	52.38	-14.08	-
2	0.939	0.10	40.23	-	40.33	-	56.00	46.00	-15.67	-
3	1.648	0.16	36.83	-	36.99	-	56.00	46.00	-19.01	-
4	3.453	0.32	36.71	-	37.03	-	56.00	46.00	-18.97	-
5	12.801	0.50	36.87	-	37.37	-	60.00	50.00	-22.63	-
6	16.863	0.57	40.22	-	40.79	-	60.00	50.00	-19.21	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.





5 IMMUNITY TEST

5.1 GENERAL DESCRIPTION

Product Standard	EN 301 489-1 V1.5.1 (2004-11), EN 301 489-17 V1.2.1(2002-08)			
Basic Standard, Specification, and	EN 61000-4-2	Electrostatic Discharge – ESD: 8kV air discharge, 4kV Contact discharge, Performance Criterion B		
Performance Criterion required	EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test – RS: 80 ~ 1000 MHz, 1400 ~ 2000 MHz, 3V/m, 80% AM (1kHz), Performance Criterion A		

5.2 GENERAL PERFORMANCE CRITERIA DESCRIPTION

	The Requirement of Performance Criteria					
1	Performance criteria for continuous phenomena applied to transmitters (CT)	Criterion A of the applicable class shall apply				
2	Performance criteria for transient phenomena applied to transmitters (TT)	Criterion B of the applicable class shall apply				
3	Performance criteria for continuous phenomena applied to receivers (CR)	Criterion A of the applicable class shall apply				
4	Performance criteria for transient phenomena applied to receivers (TR)	Criterion B of the applicable class shall apply				



The phenomena allowed during and after test in each criterion are clearly stated in the following table.

	Performance criteria							
Criteria	During test	After test						
A	Shall operate as intended. May show degradation of performance (see note1). Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance (see note 2). Shall be no loss of function. Shall be no loss of stored data or user programmable functions.						
В	May show loss of function (one or more). May show degradation of performance (see note 1). No unintentional transmissions.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2). Shall be no loss of stored data or user programmable functions.						
С	May be loss of function (one or more).	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2).						

NOTE 1:Degradation of performance during the test is understood as a degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

NOTE 2: No degradation of performance after the test is understood as no degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect form the apparatus if used as intended.

5.3 EUT OPERATING CONDITION

Same as 4.1.6



5.4 ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

5.4.1 TEST SPECIFICATION

Basic Standard: EN 61000-4-2 **Discharge Impedance:** 330 ohm / 150 pF

Discharge Voltage: Air Discharge : 2; 4; 8 kV (Direct)

Contact Discharge: 2; 4 kV (Direct/Indirect)

Polarity: Positive & Negative

Number of Discharge: Minimum 20 times at each test point

Discharge Mode: Single Discharge **Discharge Period:** 1 second minimum

5.4.2 TEST INSTRUMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL	
Thermo ESD Simulator	MZ-15/EC	0310225	Sep. 29, 2006	
ELECTROSTATIC DISCHARGE	ESD 30C	1003-18	Jan. 08, 2007	
NOISEKEN ELECTRONIC	ESS-2000	ESS0382041	lan 10 2007	
DISCHARGE SIMULATOR	E33-2000	E330382041	Jan. 10, 2007	

NOTE: 1. The test was performed in Hwa Ya ESD Room No. 1.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



5.4.3 TEST PROCEDURE

- a. Electrostatic discharges were applied only to those points and surfaces of the EUT that are accessible to users during normal operation.
- b. The test was performed with at least ten single discharges on the pre-selected points in the most sensitive polarity.
- c. The time interval between two successive single discharges was at least 1 second.
- d. The ESD generator was held perpendicularly to the surface to which the discharge was applied and the return cable was at least 0.2 meters from the EUT.
- e. Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.
- f. Air discharges were applied with the round discharge tip of the discharge electrode approaching the EUT as fast as possible (without causing mechanical damage) to touch the EUT. After each discharge, the ESD generator was removed from the EUT and re-triggered for a new single discharge. The test was repeated until all discharges were complete.
- g. At least ten single discharges (in the most sensitive polarity) were applied to the Horizontal Coupling Plane at points on each side of the EUT. The ESD generator was positioned vertically at a distance of 0.1 meters from the EUT with the discharge electrode touching the HCP.
- h. At least ten single discharges (in the most sensitive polarity) were applied to the center of one vertical edge of the **V**ertical **C**oupling **P**lane in sufficiently different positions that the four faces of the EUT were completely illuminated. The **VCP** (dimensions 0.5m x 0.5m) was placed vertically to and 0.1 meters from the EUT.

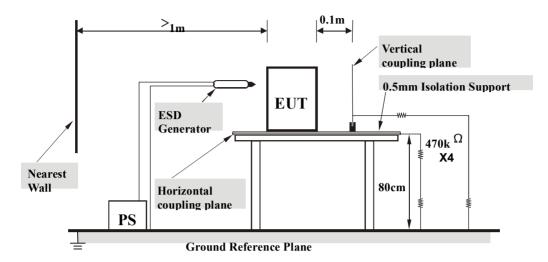
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5.4.4 DEVIATION FROM TEST STANDARD

No deviation.



5.4.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

NOTE:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the **Ground Reference Plane**. The **GRP** consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A **Horizontal Coupling Plane** (1.6m x 0.8m) was placed on the table and attached to the **GRP** by means of a cable with $940k\Omega$ total impedance. The equipment under test, was installed in a representative system as described in section 7 of EN 61000-4-2 and its cables were placed on the **HCP** and isolated by an insulating support of 0.5mm thickness. A distance of 1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.



5.4.6 TEST RESULTS

ENVIRONMENTAL	27deg.C, 53% RH,	INPUT POWER	230Vac, 50 Hz
CONDITIONS	980hPa	(SYSTEM)	230 VaC, 30 HZ
TESTED BY	JN Chen		

TEST RESULTS OF DIRECT APPLICATION						
Discharge Level (kV) Polarity Test Point Contact Discharge Air Discharge Test Resu				Test Result		
2;4;8	+/-	2	NA	NOTE	PASS	
2;4	+/-	1	NOTE	NA	PASS	

Description of test point: Please refers to following pages for representative mark only.

TEST RESULTS OF INDIRECT APPLICATION						
Discharge Level (kV)	Polarity	Test Point	Horizontal Coupling Plane	Vertical Coupling Plane	Test Result	
2; 4	+/-	4 sides	NOTE	NOTE	PASS	

Description of test point:

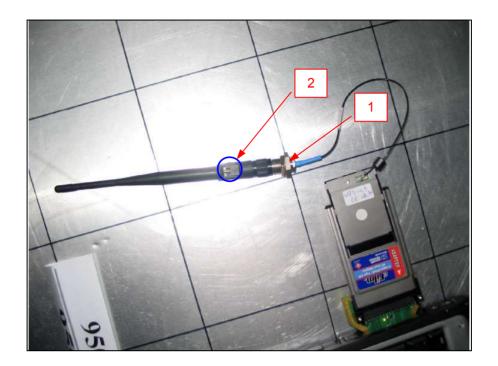
1. Front side 2. Rear side

3. Right side

4. Left side

NOTE: There was no change compared with initial operation during and after the test. No unintentional response was found during the test.







5.5 RADIATED, RADIO-FREQUENCY, ELECTROMAGNETIC FIELD IMMUNITY TEST (RS)

5.5.1 TEST SPECIFICATION

Basic Standard: EN 61000-4-3

Frequency Range: 80 MHz ~ 1000 MHz

1400 MHz ~ 2000 MHz

Field Strength: 3 V/m

Modulation: 1 kHz Sine Wave, 80%, AM Modulation

Frequency Step: 1 % of preceding frequency value

Polarity of Antenna: Horizontal and Vertical

Test Distance: 3 m **Antenna Height**: 1.5 m

Dwell Time: at least 3 seconds

5.5.2 TEST INSTRUMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Boonton RF Power Meter	4232A-01-02	107402	Nov. 20, 2006
R&S Signal Generator	SML03	101499	Nov. 20, 2006
AR ELECTRIC FIELD SENSOR	FP 6001	307198	Mar. 19, 2007
Software	ADT_RS_V450	NA	NA

NOTE: 1. The test was performed in Hwa Ya RS Room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

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5.5.3 TEST PROCEDURE

The test procedure was in accordance with EN 61000-4-3

- a. The testing was performed in a fully-anechoic chamber. The transmit antenna was located at a distance of 3 meters from the EUT.
- b. The frequency range is swept from 80 MHz to 1000 MHz, 1400 MHz to 2000 MHz with the signal 80% amplitude modulated with a 1kHz sinewave. The rate of sweep did not exceed 1.5 x 10⁻³ decade/s. Where the frequency range is swept incrementally, the step size was 1 % of preceding frequency value.
- c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- d. The field strength level was 3V/m.
- e. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

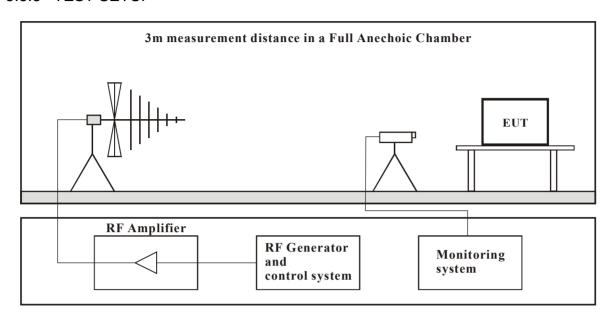
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5.5.4	DEVIATION	FROM TEST	STANDARD

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5.5.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

NOTE:

TABLETOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.



5.5.6 TEST RESULTS

ENVIRONMENTAL	26deg. C, 52% RH,	INPUT POWER	220\/aa_E0.H -
CONDITIONS	994hPa	(SYSTEM)	230Vac, 50 Hz
TESTED BY	JN Chen		

Frequency (MHz)	Polarity	Azimuth	Field Strength (V/m)	Observation	Test Result
80 ~ 1000	V&H	0	3	NOTE	PASS
80 ~ 1000	V&H	90	3	NOTE	PASS
80 ~ 1000	V&H	180	3	NOTE	PASS
80 ~ 1000	V&H	270	3	NOTE	PASS
1400 ~ 2000	V&H	0	3	NOTE	PASS
1400 ~ 2000	V&H	90	3	NOTE	PASS
1400 ~ 2000	V&H	180	3	NOTE	PASS
1400 ~ 2000	V&H	270	3	NOTE	PASS

NOTE: There was no change compared with the initial operation during the test. No unintentional response was found during the test.



6 PHOTOGRAPHS OF THE TEST CONFIGURATION









ESD Test



RS Test





7 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:

USA FCC, UL, A2LA TUV Rheinland

Japan VCCI Norway NEMKO

Canada INDUSTRY CANADA, CSA

R.O.C. CNLA, BSMI, DGT

Netherlands Telefication

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The address and road map of all our labs can be found in our web site also.

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